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Algebra 2 Worksheet

Name _____

Find all zeros.

State the excluded values for the following.

1. $f(x) = (x-5)(2x+1)$

6. $\frac{30x^3}{15x} =$

2. $f(x) = (x-4)(x-3)$

7. $\frac{x^2+8x+7}{x+1} =$

3. $f(x) = (2x-2)(x+5)$

4. $f(x) = (3x-1)(x+9)(4x-1)$

8. $\frac{60x^2}{40x} =$

5. $f(x) = (x-8)(4x+2)(3x-8)$

Algebra Worksheet

Name _____

Solve the equations.

1. $14.13 = x - 4.25$

8. $\frac{42x^3}{2x}$

2. $14.1 + x = 43.9$

9. $\frac{52x^2}{2x}$

3. $4x - 10 = x - 7$

10. $\frac{x^2+7x+6}{x+1}$

4. $2 - x = 5x - 10$

5. $2 + x = -5x - 22$

11. $\frac{x+2}{x^2+9x+18}$

6. $2 + 4x = 2x + 20$

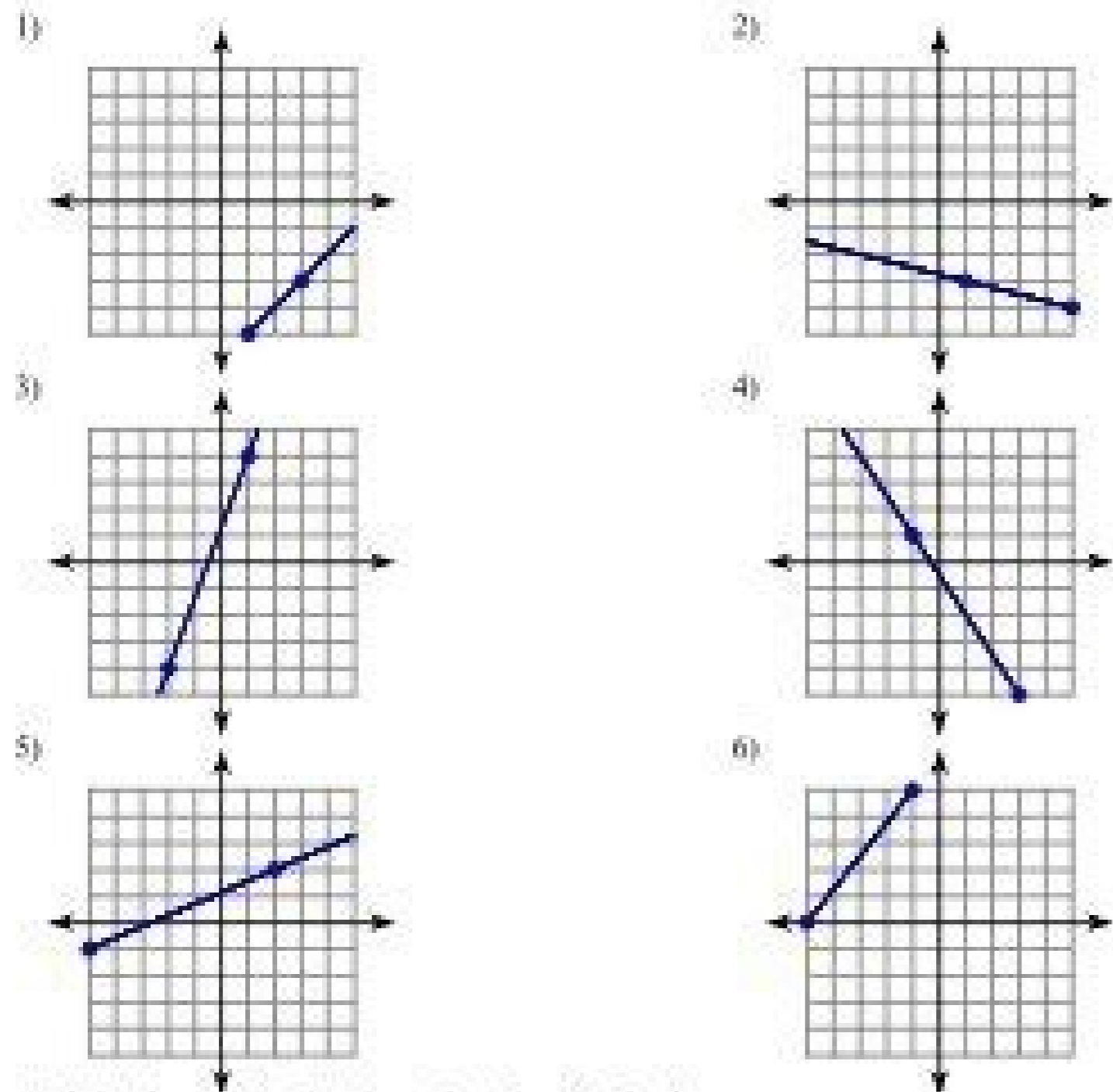
7. $-1 + 4x = 6x - 7$

12. $\frac{x^2+8x+15}{x^2+6x+8}$

Find the Slope

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Find the slope of each line.



Find the slope of the line through each pair of points.

- 7) (-18, 20), (14, -19)
8) (16, -19), (-16, -14)
9) (2, -17), (-20, -18)
10) (18, -11), (-14, 10)
11) (-17, -12), (-11, 17)
12) (-4, -1), (8, -15)
13) (-2, -14), (-2, 1)
14) (12, -12), (17, -8)
15) (10, 6), (11, 5)
16) (16, 13), (-5, 5)
17) (18, -10), (20, -15)
18) (2, -1), (-1, 8)

Date _____

Inverse Relationships (A)

Fill in the blanks

Table of multiplication problems: 2 x 6 = 12, 7 x 4 = 28, 3 x 4 = 12, 7 x 8 = 56, etc.

Table of multiplication problems: 4 x 5 = 20, 8 x 7 = 56, 6 x 9 = 54, 5 x 2 = 10, etc.

Table of multiplication problems: 9 x 5 = 45, 8 x 5 = 40, 8 x 8 = 64, 7 x 2 = 14, etc.

Table of multiplication problems: 8 x 8 = 64, 7 x 9 = 63, 9 x 2 = 18, 6 x 6 = 36, etc.

Table of multiplication problems: 5 x 3 = 15, 7 x 7 = 49, 4 x 4 = 16, 7 x 3 = 21, etc.

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Algebra 1 Worksheet

Evaluate Equations

NAME _____

Evaluate These Equations.

1. (x - 12) ÷ y + z

for x = -23, y = -5, and z = -10

2. (2x + 2) ÷ y * z

for x = 6, y = 7, z = 12

3. (4x - 17) ÷ y - z

for x = 8, y = 5, z = 3

4. (2x - 6) ÷ y * z

for x = 12, y = 6, z = 4

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(3x-4y= -20)\(x+2y= 10)
A. \(-1)
B. \(-2)
C. 1
D. 4
E. 5
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1- Circle the values of (x) and (y) provided in the choices into both equations. Let eAAs start with (2x+2y=2):A.\(1,3)
: 2x+2y=2eAA2+6eAA A2)B.\(2,4): 2x+y=2eAAA+3eAA A2)C.\(2,-1)
:2x+2y=2eAAA+(2)=2)D.\(4,-6): 2x+2y=2eAAA2+(-12)eAA A2)E.\(1,-6): 2x+2y=2eAAA2+(-12)eAA A2)Only choice C is correct.
2- Aif ((fx)=3x+4(x+1)+2), then find ((fx)) by substituting (4x) for every (x) in the function. This gives: ((fx)=3(4x)+ 4(4x+1)+2)it simplifies to: ((fx)=3(4x)+4(4x+1)+2=12x+16x+4+2=28x+6)
3- CFIRST: find the equation of the line. All lines through the origin are of the form (y=mx), so the equation is (y=frac{1}{3} x). Of the given choices, only choice C (9,3), satisfies this Xa e a e e ^ m 3 = \fraud {1} {3} (9) = 3 \} 4^ c \((3n^2+2n+6)-(2n^2-4) \). Add similar terms together: \ (3n^2-2n^2 = n^2, 2n \) does not have similar terms. \ (6-(-4) = 10 \), combine these terms in an expression to find the answer: \ (n^2+2n+10) \ 5- cSimplify and solves for \ (x \) in the Equation. \ (4 (x+1) = 6 (x-4) +20, 4x+4 = 6x-24+20, 4x+4 = 6x-4 \). Remove \ (4x \) from both sides: \ (4 = 2x-4 \), add 4 to both sides: \ (8 = 2x, 4 = x) \ 6- Ato rewritten \ (\fraud {1} \ (\frac {1} {x-5}+1\fraid \)). Frac {1 (x-5)} (x+4) (x-5) = \fraud {(x+4)+(x-5)} {(x+4) (x-5)} \) Then: \ (\fraud {1} \ (\fraud {1} {x-5}+\fraud {1} {x+4}) = \fraud {(x-5) ((x+4) (x-5))} = \fraud {(x-5) (x+4)} {(x-5)+(x+4)} \). (Remember, \ (\fraud {1} \ (\fraid of inequalities, replace 0 with \ (x \) and 0 for \ (y \) in the given system must lead to two true inequalities. After this substitution, \ (y b \). Therefore, a is positive and b is negative. Therefore, \ (c > b) \). 8- D \ (3x+10 = 46a e a e e ^ m 3x = 46-10 = 36a e a e e ^ m x = \fraud {36} {3} = 12 \) 9- B The input value is 5. Then: \ (x = 5, f (x) = x^2-3xã e a e e ^ m f (5) = 5^2-3(5) = 25-15 = 10 \) 10- Bto Solve this Problem, first remember the equation of a line: \ (y = mx+b \) where \ (m = \) pending, \ (y = y = and \) -interceptremer that the slope is the exchange rate that occurs in a function and that the intersection and is the value \ (and \) corresponding to \ (x = 0 \). From the height of Johnã e the plant of a, - measures 5 inches high when it obtains it. The time (o \ (x \) is zero. The plant grows 3 inches per year. Therefore, the rate of the plant height is 3. sisetn@Arap sisetn@Arap sol ed softneimidner sol ed ortned serolav sol erbos 4 sol odneyubirtsid \) \) x(21 = =)8-x(4 \ ad \))8-x(\ rop \) 38-x{ } 21{ carf \ = } x{ } 4{ carf \ \ ed odal adac gnyilpiptitumc -11. sadaglip 5 ed se euq atnalp al ed laicini arutla al atneserper Y n^kicesretni o \ (x = -4 \). Therefore, the value of \ (\fraud {x} {2} = \fraud {4} {2} = 2 \), 12- dia equation of a cicle can be written as \ (x-h)^2+(y-k)^2 = r^2 \) where (h, k) are the coordinates of the center of the cyculo and r is the radius of the círculo. As the coordinates of the center of the cycle are \ (-1,2) \), the equation is \ (x+1)^2+(y-2)^2 = r^2 \), where r is the radius. The radius of the cyculo is the distance of the center \ (-1,2) \), to the given final point of a radius, (2,6). For the distance of distance, \ (r^2 = (2-(-1))^2+ (6-2)^2 = (3)^2+(4)^2 = 9+16 = 25 \) Therefore, an equation of the given cycle is \ (x+1)^2+(y-2)^2 = 25 \) 13- cto resolves for cosa jja first identification what is known. The question indicates that \ (gradually \) ABC is a right triangle whose \ (a^ b = 90^\text{Circ} \) and sync \ (= \fraud {8} {17} \). It is important to remember that any triam has a sum of interior a angles that equals 180 degrees. Therefore, to calculate cosa a use of complementary ones identify a trigonommit function. Because a = cosa (90 \ (- \) c), then: because for complementary ones, the sin of an Eglise is equal to the cost of the other one. Because ... 14- Clet \ (x \) be All Costs, Then \ (\fraud {22} {100} x = \$ 660 a ^ x = \fraud . Jones spent rent: \ (\fraud {27} {100} a - \$ 3,000 = \$ 810 \) 15- wing amount of money for \ (x \) shelves is: \ (200x) \), then the total cost of All libraries is equal to: \ (200x+600 \), the total cost, in days, for shelves is: \ (\fraud {total \ cost} {number \ of \ items} = \fraud {200x+600} {x} \) 16- bse that g (5) = 4. Therefore, to find the value of f (g (5)), then f (g (5)) = f (4) = 6 17- ael of the triam is: \ (\fraud {1} {2} \) ad \ (a - \) bc and ad are perpendicular to bc. ADC triangle is a \ (30^\text{Circ}-60^\text{Circ}-90^\text{Circ} \) Right triangle. The relationship between all sides of the right triam \ (30^\text{Circ}-60^\text{Circ}-90^\text{Circ} \) is provided in the following triam: In this triam, the angle is half of the hypotenuse. And the opposite side of \ (60^\text{Circ} \) is opposite of \ (30^\text{Circ} \) CD=6, then AD=(6AA\sqr{3})Area of the triangle ABC is: \ (\frac {1} {2} \) \) AD \ (AA)BC \ (= \frac {1} {2} \) 0\sqr{3} \) AA12=36\sqr{3} \) \) \) \) \) \) 18- C \ (6eAA28=\sqrt{6^2+28}=\sqrt{36+28}=\sqrt{64}=8) \) 19- CThe equation of a circle with center (h,k) and radius r is ((x-h)^2+(y-k)^2=r^2). To put the equation ((x^2+y^2+8x-2y=1)) in this form, complete the square as follows:\(x^2+y^2+8x-2y=1) \), \ (x^2+8x)+(y^2-2y)=1) \) \ ((x^2+8x+16)-16+(y^2-2y+1)-1 = \), \ ((x+4)^2+(y-1)^2=18) \) \ ((x+4)^2+(y-1)^2=(\sqrt{18})^2 \) Therefore, the radius of the circle is \ (\sqrt{18}) \). 20- ESolve the system of equations by elimination method.\(\frac {\begin{align} 3x + eAAA 4y = eAAA 20 \\ eAAA x + 2y = 10 \end{align} } {1} \) Multiply the second equation by 3, then add it to the first equation.\(\cfrac {\begin{align} 3x + eAAA 4y = eAAA 20 \\ 3x + eAAA 4y = eAAA 20 \\ 3x + 6y = 30 \end{align} } {1} eAAA\)\add the equations \ (2^*AA)A=10eAAA^*AA)A=5) Looking for the best resource to help you succeed on the CLEP College Algebra Math test? The Best Books to Ace the CLEP College Algebra Math Test
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