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Recalling Algebra I

You must show all work to receive credit.

No work = no credit.

1. Simplify this expression:

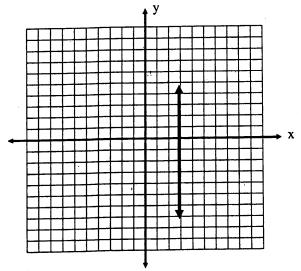
$$5x^2 - 2x - 3x^2 - 4x$$

2. Solve this equation:

$$\frac{h}{8} = 7$$

- 3. Evaluate this expression if a = 5 and b = -1 $4(b^2 + a)$
- 4. Find the length of segment AB, given that A (8, -2) and B (2, 6)
- 5. Write the equation of the line with a slope of 3 passing through the point (0, 4)
- 6. What is the product of 9 and -5
- 7. Simplify this expression: $(4u^2v^4)(3u^3v)$

8. Find the slope of the line pictured below:



9. What is the value of x in this equation:

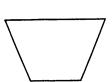
$$3(x-2) - 4(2+3x) = x+10$$

10. Circle the shape(s) that is not a parallelogram:









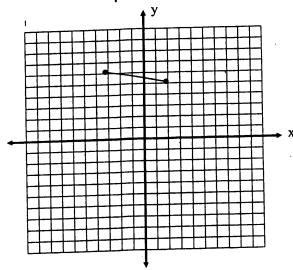
11. Simplify this expression:

$$\frac{6y^2}{14xy} \times \frac{7xy}{4x^2}$$

- 12. The equation 3y + 7x = 4 best describes which of the following:
 - Point
 - Parabola
 - Line
 - Circle

Explain your reasoning

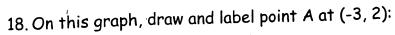
- 13. Simplify this expression: $\sqrt{5} \times \sqrt{10}$
- 14. Find the midpoint of this segment: The endpoints are at (-3, 6) and (2, 5)

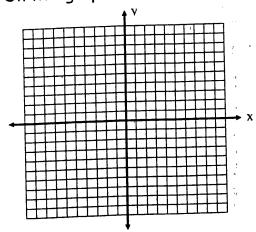


- 15. Simplify this expression: (4-5x)(3+25x)
- 16. Solve this equation for x: $5+(3^2-4)+6\times 3=x$

17. Solve for x by factoring:

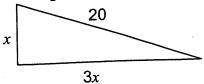
$$x^2 + 3x = 4$$





19. Solve for x:
$$|4-9=x|$$

20. Between what two numbers is x in this right triangle:



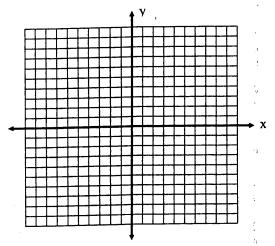
- 21. Find the sum of 37.428 and 52.879. Round your answer to the nearest hundredth.
- 22. Write the equation of the line perpendicular to the line y = -3x + 5 and passing through the point (0, 4)

23.One leg of a right triangle is 8 cm and the hypotenuse is 17 cm. How long is the other leg?



- 24. Write the equation of line AC, passing through A (2, 3) and C (4, 5)
- .

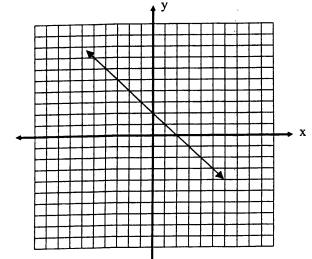
25.On this grid, graph the line $y = \frac{2}{3}x - 2$



26. Find at least one solution of $x^2 - 4x = 12$



27. Write the equation of the line shown here:



28. Solve this equation:
$$\sqrt{3} + \sqrt{27} = x$$

$$\sqrt{3} + \sqrt{27} = x$$

29. Solve for d where
$$3d - 35 = 9d - 59$$

30. Solve this system of equations:
$$2x + y = 15$$

$$2x + y = 15$$

$$x + 2y = 15$$