

Name: _____ Date: _____

1 Solve for y . Write each solution as an integer, proper fraction, or improper fraction in simplest form. If there are multiple solutions, separate them with commas.

$$3y^2 - 35y - 12 = 0$$

$y =$ _____

2 Find the degree of this polynomial.

$$-3f^{10} + f^3$$

3 Factor completely.

$$x^4 + 12x^2 + 36$$

4 Find the product. Simplify your answer.

$$(2u)(6u^2)$$

5 Find the zeroes of the function $g(x)$. Write your answer as a list of values separated by commas.

$$g(x) = (x-2)(x+6)$$

$x =$ _____

6 Add.

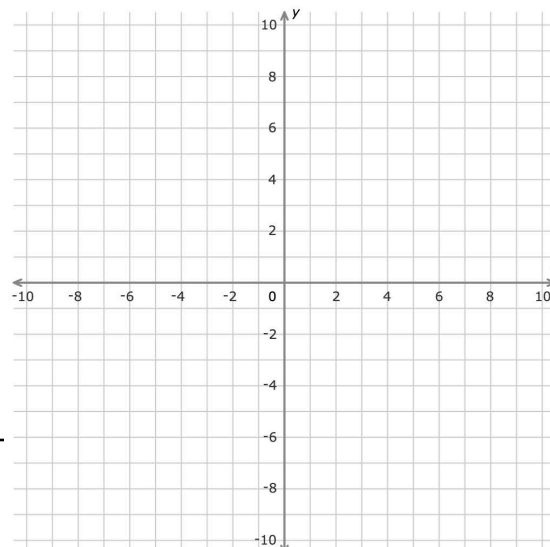
$$(4z+9)+(7z+4)$$

7 Divide.

$$(5d^2 + 25d) \div (d + 5)$$

8

Graph this function using intercepts:

$$4x+3y=12$$


9 Solve. Simplify your answer.

$$\log y = 2$$

$y =$ _____

10

X is a normally distributed random variable with mean 79 and standard deviation 19. What is the probability that X is between 60 and 98? Write your answer as a decimal rounded to the nearest thousandth.

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1 Solve for y . Write each solution as an integer, proper fraction, or improper fraction in simplest form. If there are multiple solutions, separate them with commas.

$$3y^2 - 35y - 12 = 0$$

$y = 12, -\frac{1}{3}$

2 Find the degree of this polynomial.

$$-3f^{10} + f^3$$

10

3 Factor completely.

$$x^4 + 12x^2 + 36$$

$(x^2 + 6)^2$

4 Find the product. Simplify your answer.

$$(2u)(6u^2)$$

$12u^3$

5 Find the zeroes of the function $g(x)$. Write your answer as a list of values separated by commas.

$$g(x) = (x-2)(x+6)$$

$x = 2, -6$

6 Add.

$$(4z+9)+(7z+4)$$

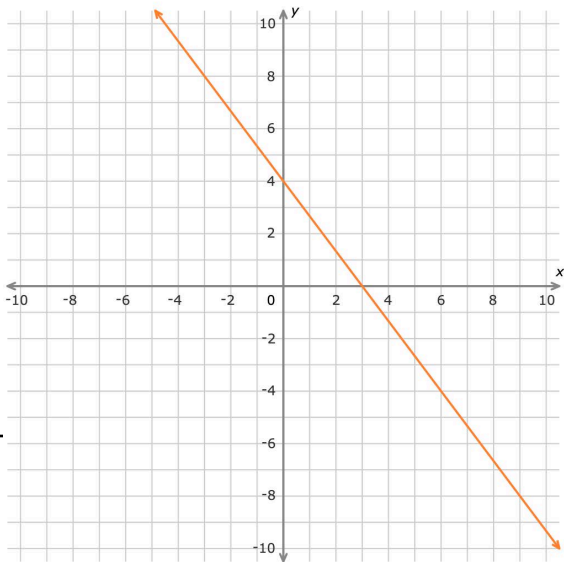
$11z + 13$

7 Divide.

$$(5d^2 + 25d) \div (d + 5)$$

$5d$

8 Graph this function using intercepts:

$$4x+3y=12$$


9 Solve. Simplify your answer.

$$\log y = 2$$

$y = 100$

10 X is a normally distributed random variable with mean 79 and standard deviation 19. What is the probability that X is between 60 and 98? Write your answer as a decimal rounded to the nearest thousandth.

0.68