

MONDAY

Rewrite the following in vertex form using completing the square. Show all work!

$$y = x^2 + 8x + 6$$

Rewrite the following in vertex form using completing the square. Show all work!

$$y = x^2 + 10x + 2$$

Rewrite the following in vertex form using completing the square. Show all work!

$$y = 2x^2 + 12x + 7$$

Rewrite the following in vertex form using completing the square. Show all work!

$$y = x^2 + 5x + 6$$

TUESDAY

Rearrange the equation below so it is in standard form.
Then, identify the variables a , b and c .

$$15x = 12 - 9x^2$$

Solve the quadratic equation (use any method).

$$x^2 + 5x = 24$$

Rearrange the equation below so it is in standard form.
Then, identify the variables a , b and c .

$$x + 4x^2 = -7$$

Solve the quadratic equation (use any method).

$$25x^2 = 144$$

Solve the quadratic equation (use any method).

$$x^2 - 7x - 8 = 0$$

Solve the quadratic equation (use any method).

$$x^2 = 41x$$

Use the quadratic formula to solve

$$3x^2 + 5x + 1 = 0$$

Use the quadratic formula to solve

$$2x^2 - 4x + 3 = 0$$

WEDNESDAY

Use the quadratic formula to solve

$$2x^2 + 8x - 24 = 0$$

Rewrite in VERTEX form.

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

Draw a diagram and solve by FACTORING.

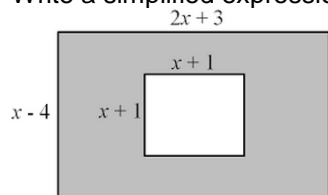
The length of a rectangle is 2 feet more than three times the height. The area is 165 ft^2 . Find the height of the rectangle.

If an object is thrown upward, its approximate height (h) in feet is given by the formula: $h = -16t^2 + vt + c$, where “t” is the time in motion in seconds, “v” is the initial upward velocity, and “c” is the initial height in feet. Plug in the values below into the formula above and solve by using the quadratic formula.

A rocket is shot upward from an initial height of 3 feet and an initial velocity of 80 ft/s. Find the value of “t” when “h” is zero (when the rocket hits the ground).

THURSDAY

Write a simplified expression for the area of the shaded region (NOTE; this is FOIL and Subtraction! Not solving.)



If an object is thrown upward, its approximate height (h) in feet is given by the formula: $h = -16t^2 + vt + c$, where “t” is the time in motion in seconds, “v” is the initial upward velocity, and “c” is the initial height in feet. Plug in the values below into the formula above and solve by using the quadratic formula.

A ball is 5 feet above the ground and is thrown with an initial velocity of 64 ft/s. Find the amount of time (t) that the ball is in the air before it hits the ground. (h = 0 when the ball hits the ground).

Find two consecutive ODD integers such that the square of the first, added to 3 times the second is 24.

HINTS: consecutive odd integers: x, x + 2, x + 4, etc.
SOLVE THIS BY FACTORING OR QUADRATIC FORMULA.