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Solve the equation.

$$22x + 2(3x + 5) = 66$$

$$22x + 6x + 10 = 66$$

$$28x = 56$$

$$x = 2$$

Problem 1:

After knee surgery, your trainer tells you to return to your jogging program slowly. He suggests jogging for 12 minutes each for the first week. Each week thereafter, he suggests you increase that time by 6 minutes. How many weeks will it be before you are up to jogging 60 minutes per day?

Sequence $\{12, 18, 24, \dots, 60\}$
time

Difference of two squares

$$y^4 - 16 =$$

$$= (y^2)^2 - (4)^2$$

$$= (y^2 - 4)(y^2 + 4)$$

$$= (y - 2)(y + 2)(y^2 + 4)$$

EXAMPLE: $3x + 2y + 4z = 11$

$$\begin{array}{r} 2x - y + 3z = 4 \\ 5x - 3y + 5z = -1 \end{array}$$

STEP 1: Use Elimination to rewrite the system

in three variables as a system in two variables.

$$\begin{array}{r} 3x + 2y + 4z = 11 \\ 4x - 2y + 6z = 8 \\ \hline 7x + 10z = 19 \end{array} \quad \begin{array}{r} -6x + 3y - 9z = -12 \\ 5x - 2y + 5z = -1 \\ \hline -x - 4z = -13 \end{array}$$

STEP 2: Solve the new system for both variables

$$\begin{array}{r} 7x + 10z = 19 \\ 7(-x - 4z) = (-13) \\ \hline 7x + 10z = 19 \\ -7x - 28z = -91 \\ \hline -18z = -72 \\ z = 4 \end{array} \quad \begin{array}{r} -x - 4(4) = -13 \\ -x - 16 = -13 \\ -x = 3 \\ x = -3 \end{array}$$

STEP 3: Substitute the values found in Step 2

into one of the original equations.

$$\begin{array}{r} 3x + 2y + 4z = 11 \\ 2x - y + 3z = 4 \\ 5x - 3y + 5z = -1 \end{array} \quad \begin{array}{r} 3(-3) + 2y + 4(4) = 11 \\ -9 + 2y + 16 = 11 \\ 7 + 2y = 11 \\ 2y = 4 \\ y = 2 \end{array}$$

$(-3, 2, 4)$

Solve the right triangle. Round decimals to the nearest tenth.

$\tan A = \frac{3}{2}$

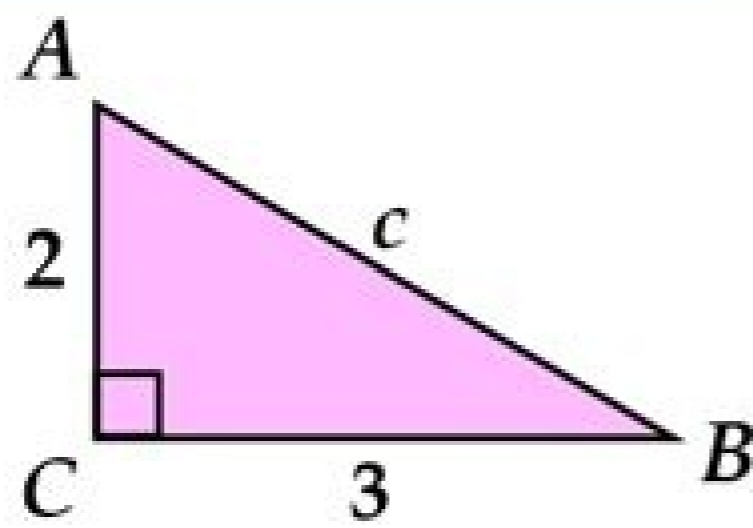
$\tan A = 1.5$

$m\angle A = \tan^{-1}(1.5)$

$m\angle A = 56.3^\circ$

$m\angle B = 90 - 56.3^\circ$

$m\angle B = 33.7^\circ$



$2^2 + 3^2 = c^2$

$4 + 9 = c^2$

$13 = c^2$

$c = 3.6$

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