

14. Solve the system of equations by substitution:

$$\begin{aligned} 20x + 20y &= -120 \\ 20x + y &= -60 \\ 20x + 20y &= -120 \end{aligned}$$

These equations are same. So,

Indefinite number of solutions

15. A plane travels 1200 miles in 4 hours with the wind and travels the return trip against the wind in 8 hours. Find the speed of the plane in still air and the speed of the wind.

Let  $p$  = plane's speed  
and  $w$  = wind's speed

$$\begin{aligned} p + w &= 300 \\ p - w &= 150 \\ p + w &= 400 \\ p &= 300 \\ p &= 600 \\ p + w &= 600 \\ p &= 600 \\ p - w &= 300 \\ p &= 600 \\ p &= 300 \end{aligned}$$

plane's speed is 600 mph  
wind's speed is 300 mph

16. Simplify:

$$\begin{aligned} (2x + 3y)(x - 4) &= 2x^2 + 3xy - 8x \\ -7y - 14y &= -21xy - 56x \\ &= 28x \end{aligned}$$

$28x = 28x$

17.  $\frac{\sqrt{2} - \sqrt{10}}{\sqrt{4 - 20} + 5 - 10}$

$$\begin{aligned} \sqrt{4 - 20} &= \sqrt{-16} \\ \sqrt{-16} &= 4i \end{aligned}$$

$\sqrt{-16} = 4i$

18. Simplify:

$$\frac{\frac{a}{\sqrt{2a}} - \frac{b}{\sqrt{2b}}}{\frac{a}{\sqrt{2a}} + \frac{b}{\sqrt{2b}}} = \frac{a\sqrt{2b} - b\sqrt{2a}}{a\sqrt{2b} + b\sqrt{2a}}$$

19. Factor:

$$\begin{aligned} 3x^2 + 20x + 12 &= 0 \\ (3x + 2)(x + 6) &= 0 \\ 3x + 2 &= 0 \\ x + 6 &= 0 \\ x &= -6 \end{aligned}$$

20.  $7x^2 - 50 = 480$

$$\begin{aligned} 7x^2 &= 480 + 50 \\ 7x^2 &= 530 \\ x^2 &= 70 \\ x &= \pm \sqrt{70} \end{aligned}$$

21.  $5x^2 + 120x + 500 = 0$

$$\begin{aligned} 5x^2 + 120x + 500 &= 0 \\ 5x^2 + 120x + 240 &= 0 \\ 5x^2 + 120x + 240 &= 0 \\ (x + 4)(5x + 60) &= 0 \\ x + 4 &= 0 \\ x &= -4 \end{aligned}$$

22. Complete the square then rewrite as a perfect square:  $x^2 - 8x + \underline{\hspace{2cm}}$

$$\begin{aligned} x^2 - 8x &= 25 \\ (x - 4)^2 &= 25 \end{aligned}$$

23. Solve by completing the square:

$$\begin{aligned} 2x^2 + 12x + 36 &= -10 \\ 2x^2 + 12x + 46 &= 0 \\ x^2 + 6x + 23 &= 0 \\ x^2 + 6x + 9 &= -14 \\ (x + 3)^2 &= -14 \\ x + 3 &= \pm \sqrt{-14} \\ x &= -3 \pm \sqrt{-14} \end{aligned}$$

24. Find the discriminant and state the number and type of solutions:

$$\begin{aligned} 4x^2 - 24x + 32 &= 0 \\ 4x^2 - 24x + 72 &= 0 \\ 4x^2 - 24x &= -72 \\ 4x^2 - 24x &= 0 \end{aligned}$$

$(-2x)^2 - 4(4)(-7)$

$16x^2 + 112 = 0$

$16x^2 = 112$

$x^2 = 7$

$x = \pm \sqrt{7}$

2 real solutions

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**Bruce R. Joyce, Greta Morine-  
Dershimer**

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