

1. Solve the following equations.

$$\frac{5}{x+2} + \frac{x(x+3)}{x^2-4} = \frac{x}{x-2}$$

3. Find the value of x

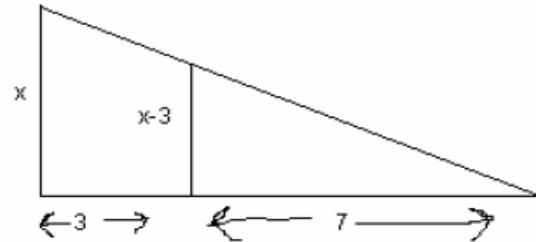
$$3^{2x-1} = 81^{3x+3}$$

4. Find the value of x

$$2^{2x} - 2^x = 12$$

6. Solve $3x^2 + x - 2 = 0$ for x

2. Find the value of x



5. Solve $x^4 - 9x^2 + 8 = 0$ for x

$$\begin{aligned} 7. \quad 5x + 3.5y &= 17 \\ 2x + 0.5y &= 5 \end{aligned}$$