

Quiz 7

$$\boxed{1} \quad 4x - 10 = 0 \Rightarrow 4x = 10 \Rightarrow$$

$$x = \frac{10}{4} = \frac{5}{2}$$

$$\boxed{2} \quad 3(x+2) = x-8 \Rightarrow 3x+6 = x-8 \Rightarrow$$

$$2x = -14 \Rightarrow x = \frac{-14}{2} = -7$$

$$\boxed{3} \quad \cancel{x^2} + 5x - 2 = \cancel{x^2} - 3x + 10 \Rightarrow$$

$$5x - 2 = -3x + 10 \Rightarrow 8x = 12 \Rightarrow$$

$$\cancel{x} = \frac{3}{2}$$

$$\boxed{4} \quad \frac{1}{x+2} - \frac{5}{2x-5} = 0 \Rightarrow$$

$$\frac{(2x-5) - 5(x+2)}{(x+2)(2x-5)} = 0 \Rightarrow 2x-5-5(x+2)=0$$

$$2x-5-5x-10=0$$

$$-3x-15=0 \Rightarrow$$

$$3x = -15 \Rightarrow x = -5$$