

ACHA3000 2117715

3.

$$x^2 + 9x + 14 = 0$$

$$\begin{array}{r} 1 \\ -2 \\ -7 \\ -14 \end{array}$$

$$(ii) x^2 - 7x + 10 = 0$$

4.

$$17x^2 = -5x + 14$$

$$a = 17, b = 5, c = -14$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

~~$$x = \frac{-5 \pm \sqrt{5^2 - 4(17)(-14)}}{2(17)}$$~~

$$\frac{-5 \pm \sqrt{5^2 - 4(17)(-14)}}{2 \cdot 17}$$

$$+ x = \frac{-5 + \sqrt{977}}{2 \cdot 17}$$

$$\frac{-5 + \sqrt{977}}{34} \quad \frac{\sqrt{5^2 + 4 \cdot 17 \cdot 14}}{\sqrt{25 + 952}} = \frac{\sqrt{977}}{\sqrt{977}}$$

$$- \frac{-5 - \sqrt{977}}{34}$$

$$\boxed{x = \frac{-5 + \sqrt{977}}{34}} \quad \boxed{x = \frac{-5 - \sqrt{977}}{34}}$$

5.

$$6x + 5y = 35$$

$$7x - 4y = 31$$

Out of Time

$$x = 5 \quad y = 1$$