

12:00pm 11/11/21 ACH 3000 2104322

p.92

3.)

$$i) x^2 + 9x + 14 = 0 \quad 2 \times 7$$

$$(x+2)(x+7)$$

$$\cancel{x^2} + x + 2 = 0 \quad x + 7 = 0$$

$$\boxed{x = -2} \quad \boxed{x = -7}$$

$$ii) x^2 - 7x + 10 = 0 \quad 5 \times 2$$

$$(x-2)(x-5)$$

$$x - 2 = 0 \quad x - 5 = 0$$

$$\boxed{x = 2} \quad \boxed{x = 5}$$

$$iii) x^2 + 8x - 20 = 0$$

$$(x-2)(x+10) = 0$$

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

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

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

$$x = \frac{-5 \pm \sqrt{25 - 952}}{34}$$

$$x = \frac{-5 \pm \sqrt{927}}{34}$$

$$-2 \times 10 \quad \boxed{x = -0.147059}$$

$$\boxed{x = +0.89549}$$