

$$\text{iii)} \frac{3}{(2x+1)} = \frac{4}{(x-1)}$$

$$\text{iv)} (x+2)^2 = (x+3)(x+5)$$

$$\text{3i)} \overset{+}{x^2} + \overset{-}{9x} + \overset{+}{14} = 0$$

A B C

7 and 2

$$\cancel{11x+11} \quad (x+7)(x+2)$$

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

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

$$\text{ii)} x^2 - 7x + 10 = 0$$

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

$$\boxed{x = 5}$$

$$\boxed{x = 2}$$

$$\text{iii)} x^2 + 8x - 20 = 0$$

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

$$\boxed{x = -10}$$

$$\boxed{x = 2}$$

$$\text{iv)} x^2 - 49 = 0$$

$$(x-7)(x+7) = 0$$

$$\boxed{x = 7}$$

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

$$\text{v)} 2x^2 - 3x - 20 = 0$$

$$\overset{+}{17x^2} + \overset{-}{5x} + \overset{+}{14} = 0$$

A B C

$$\text{4i)} 17x^2 = -5x + 14$$

$$17x^2 + 5x - 14 = 0$$

A B C

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} = \frac{-5x \pm \sqrt{5x^2 - 4(17x^2)(14)}}{2(17x^2)} = \frac{-12.28}{2.290}$$