

⑥

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Part time maths Friday afternoon 06/11/2020 @ 13:30.

d) solve by factorising

i) $x^2 + 11x + 30 = 0$

$$(x+5)(x+6) = 0.$$

$$x+5=0$$

$$x+6=0$$

$$x = -5$$

$$x = -6.$$

ii) $x^2 + 13x + 22 = 0.$

$$(x+2)(x+11) = 0.$$

$$x+2=0$$

$$x+11=0.$$

$$x = -2$$

$$x = -11.$$

iii) $x^2 + 100 = 0.$

$$x^2 = 0 - 100$$

$$x = \pm \sqrt{-100}$$

iv) $2x^2 + 7x + 5 = 0$ 2/5.

$$(x+2)(x+1)$$

$$x = \frac{-5}{2} \text{ or } x = -1$$