

5)

$$6x + 5y = 35$$

$$7x + 4y = 31$$

$$13x + y = 66$$

①
②

$$6x + 35 = 5y$$

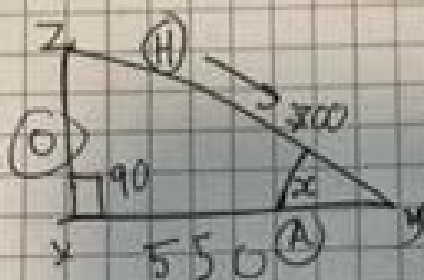
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$$7(35 - y) + 4y = 31$$

$$245 + 7y + 4y = 31$$

6

7)



180° Δ

SPH

~~5:20~~

5°H C°H T°A



ii cos

13:30

Find the high

Find the angle x

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$$ii) 10(3x+2) = 7(-2x+1)$$

$$\begin{array}{r} 30x + 20 = -14x - 7 \\ 14x \quad -20 \quad \wedge \quad -7 \quad -20 \end{array} \quad 14x = -27 \quad \boxed{14x = -27}$$

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

$$iv) (x+2)^2 = (x+3)(x+5)$$

$$x^2 + 4x + 4 = x^2 + 8x + 15$$

3)

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

7 2

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

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

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

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

$$\begin{array}{l} 2+5 = 7 \\ 2 \times 5 = 10 \end{array}$$

$$x = 2 \quad x = 5$$

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 14) $x^2 - 49 = 0$

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

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

V $2x^2 - 3x - 20 =$

$$2x^2 + 5x - 6x - 20 = 0$$

$$x(2x+5) - 4(2x+5) = 0$$

$$(2x+5)(x-4) = 0$$

$$\boxed{x = \frac{5}{2}} \quad \boxed{x = 4}$$

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

(calculator broke)
 13:00

use that to find the roots of

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

OW 1.11.21 Online exam

i) $x^6 \times x^6 \times x^2 \times x = x^{14} \boxed{x^{14}}$

ii) $(2x^2)^4 \times 3x^3$

$16x^8 \times 3x^3 = 48x^{11} \boxed{48x^{11}}$

iii) $\frac{x^2 \times x^{10} \times x}{x^3} = \frac{13x}{3x} \quad \boxed{10x} \quad \boxed{x^{10}}$

iv) $2\sqrt{x} \times 3\sqrt{x} = 2x \times 3x = \boxed{6x^2}$

2: solve for x

i) $\cancel{2x} + \cancel{1} = \cancel{15x} + 4$
 $-2x \quad \quad \quad -7x$

$-1 = 8x + 4$
 $-4 \quad \quad \quad -4$
 $-5 = 8x \quad \boxed{8x}$