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$$(4) -b \pm \sqrt{b^2 - 4ac} \\ 2a$$

$$14x^2 + 3x = 11$$

$$14x^2 + 3x - 11 = 0$$

$$x = \frac{-3 \pm \sqrt{3^2 - 4(14)(-11)}}{2(14)}$$

$$x = \frac{-3 \pm \sqrt{9 + 616}}{28}$$

$$x = \frac{-3 \pm \sqrt{625}}{28}$$

$$\therefore x = \frac{-3 \pm 25}{28}$$

$$x = \frac{-3 + 25}{28} \quad \therefore x = 0,39$$

$$x = \frac{-3 - 25}{28} \quad \therefore x = -0,5$$

(5) Simultaneous equations:

$$2 - 5x + 3y = 39 \quad \text{--- (1)}$$

$$3 - 8x - 2y = 42 \quad \text{--- (2)}$$

$$10x + 6y = 78 \quad \text{--- (3)}$$

$$24x + 8y = 126 \quad \text{--- (4)}$$

$$34x = 204$$

$$\therefore x = \frac{204}{34} \quad \therefore x = 6$$

$$(6) 5(6) + 3y = 39$$

$$30 + 3y = 39 \quad \therefore 3y = 39 - 30$$

$$\therefore 3y = 9$$

$$y = \frac{9}{3}$$

$$y = 3$$

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$$(6) 5(2x^2 - x^2) - x^2(x - y) - 2x^2 - x^4$$

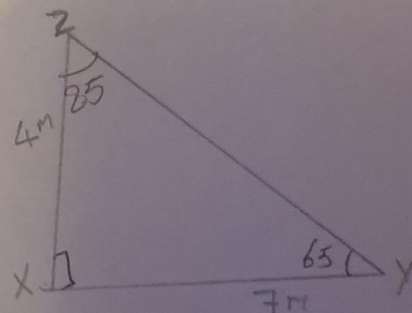
$$10x^2 - 5x^2 - x^3 + xy^2 - x^4$$

$$10x^2 - 5x^2 - x^4$$

(7) (i) Angle Y

(ii) Angle Z

(iii) Length YZ



$$\tan Y = \frac{4}{7}$$

$$x^2 = 7^2 + 4^2$$

$$x^2 = 49 + 16$$

$$x^2 = 65$$

$$\text{Angle Z} = 25$$

$$(iii) YZ = \frac{YX}{\sin Z}$$

$$YZ = \frac{7}{\sin 25} \quad Y = 10$$

$$18 \sqrt{x} = 3(x)^2 \quad \therefore x = 10$$

$$(i) 1 = 0$$