

(5)

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Part time maths friday afternoons

maths Exam 1 06/11/2020 @ 1330.

Question Two

B) Solve for x and y

$$y = x^2 + 2x + 2$$

$$y = 2x^2 + 11x + 10.$$

$$\frac{dy}{dx} = 2x' - 2x + 2$$

$$\frac{dy}{dx} = 4x' + 11x + 10$$

$$c) \quad \overset{a}{9}x^2 - \overset{b}{4}x - \overset{c}{5} = 0.$$

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

$$x = \frac{-4 \pm \sqrt{(4)^2 - 4(9)(-5)}}{2(9)}$$

$$x = \frac{-4 \pm \sqrt{16 - -180}}{18}$$

$$x = \frac{4 \pm \sqrt{196}}{18}$$

$$x = \frac{4 + 14}{18}$$

$$x = \frac{18}{18}$$

$$x = 1$$

$$x = \frac{4 - 14}{18}$$

$$x = -0.55$$