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2016 11 Find the points of intersection of y = -5 - 4x and $y = 3 - 2x - x^2$.

3

$$y = -5 - 4x \dots 1$$

$$y = 3 - 2x - x^2 \dots (2)$$

Let
$$(1) = (2)$$
:

$$-5 - 4x = 3 - 2x - x^2$$

$$x^2 - 2x - 8 = 0$$

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

$$x = 4, -2$$

Subs in (1):

$$y(4) = -5 - 4(4)$$
$$= -21$$
$$y(-2) = -5 - 4(-2)$$

(4, -21) and (-2, 3).

State Mean: **2.55**

BOSTES: Notes from the Marking Centre

This information is released by BOSTES in late Term 1 2017.

^{*} These solutions have been provided by projectmaths and are not supplied or endorsed by BOSTES.