



**(1)**

**(5)**

## Solutions

1a.

$3(x - 2) < 8 - 2x$ $3x - 6 < 8 - 2x$ $5x < 14$	<b>M1</b>
$x < \frac{14}{5}$	<b>M1</b>

1b.

$(2x - 7)(1 + x) < 0$ $x = \frac{7}{2}$	<b>M1</b>
$x = -1$	<b>M1</b>
$-1 < x < \frac{7}{2}$	

1c.

$-1 < x < \frac{14}{5}$	<b>M1</b>
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2.

$4 - 2x = 12 - x - x^2$ $x^2 - 2x - 8 = 0$ $(x - 4)(x + 2) = 0$	<b>M1</b>
$x = 4$ $y = 4 - 3(4) = -8$	<b>M1</b>
$x = -2$ $y = 4 - 3(-2) = 10$	<b>M1</b>

