

Test 2

Friday 28 Sept. 2018

Maths 10

Arithmetic (solving equations)

Name: _____

Solve the following equations

1) $\frac{x-2}{3} + \frac{x+1}{2} = \frac{x}{6}$

2) $\frac{3}{x-2} - \frac{2}{x+1} = 0$

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

4) $(2x-1)^2 = 2(x-1)^2 + 2(x-2)^2 + 7$

5) $x^2 - 10x + 100 = 7x + 40$

6) $x^2 = 10(300 + 7x)$

7) $\frac{1}{(x-1)} - \frac{1}{(x+1)} = \frac{x}{(x-1)(x+1)}$

Bonus

i) $\frac{1}{(x-1)} - \frac{1}{(x+1)} = 1$

ii) $\frac{3x}{(2x+7)} - \frac{x}{(x+1)} = 0$