

(C1-4.2a) Name:

Homework Questions 2 – Transformation of Cubic Graphs

The basic cubic graph is $y = x^3$ describe the transformation/s that has taken place to make the following graphs

a) $y = -x^3$

Reflection in y axis

b) $y = 4x^3$

4 times steeper

c) $y = x^3 + 5$

Up 5

d) $y = (x - 3)^3 - 4$

Right 3 and down 4

e) $y = \frac{2}{3}x^3$

2/3 steeper

f) $y = -(x + 6)^3$

Reflection in x axis left 6

g) $y = x^3 - 9$

Down 9

h) $y = x^3 - 2$

Down 2

i) $y = (x - 1)^3 - 3$

Right 1 and down 3

j) $y = -3(x + 5)^3 - 8$

Reflection in x axis, left 5 and down 8, 3 times as steep