



Name: _____



Find the gradient of the line that passes through the two given points:

a) (5,7) and (6,9)

h) (2,2) and (7,27)

b) (1,3) and (3,9)

i) (6,7) and (10,39)

c) (6,1) and (7,6)

j) (7,1) and (16,19)

d) (2,1) and (3,4)

k) (3,15) and (6,3)

e) (5,3) and (7,13)

l) (-2,15) and (20,3)

f) (2,2) and (4,8)

m) (-3,-2) and (-5,8)

g) (4,1) and (6,11)

n) (1,4) and (-3,-8)

Write an expression for the gradient between the given points (leave your answers in the simplest form)

a) $(x, 2)$ and $(5, 3x)$

d) $(1, 2)$ and $(x, 2x)$

b) $(1, x)$ and $(6x, 11)$

f) $(4, 10)$ and $(2x, 5x)$

c) (y, x) and $(5y, 4x)$

f) $(5y, 2x)$ and $(2y, 5x)$

Exam question:

The line AB passes through the points $A = (2, -1)$ and $B = (6, k)$.

The gradient of AB is 4.

Work out the value of k .

