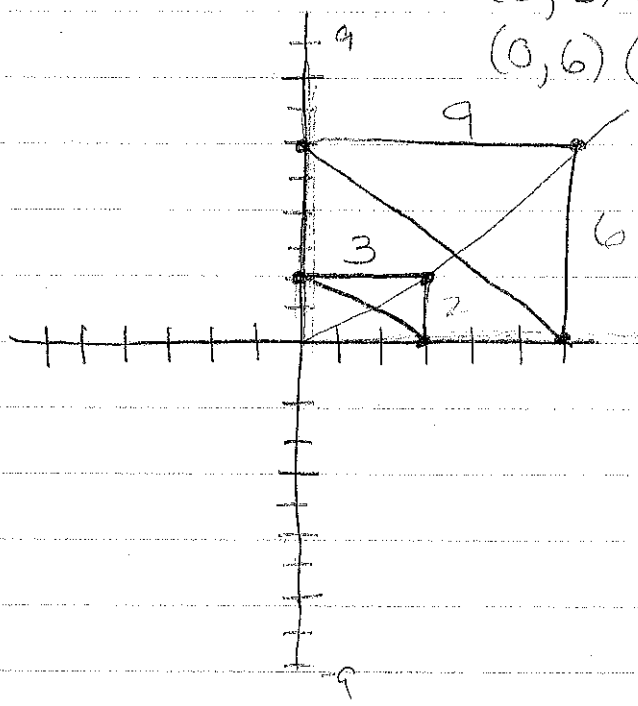
Pg. 87 (4-20)

(4)

(0,2) (3,2) (3,0)
(0,6) (9,6) (9,0)



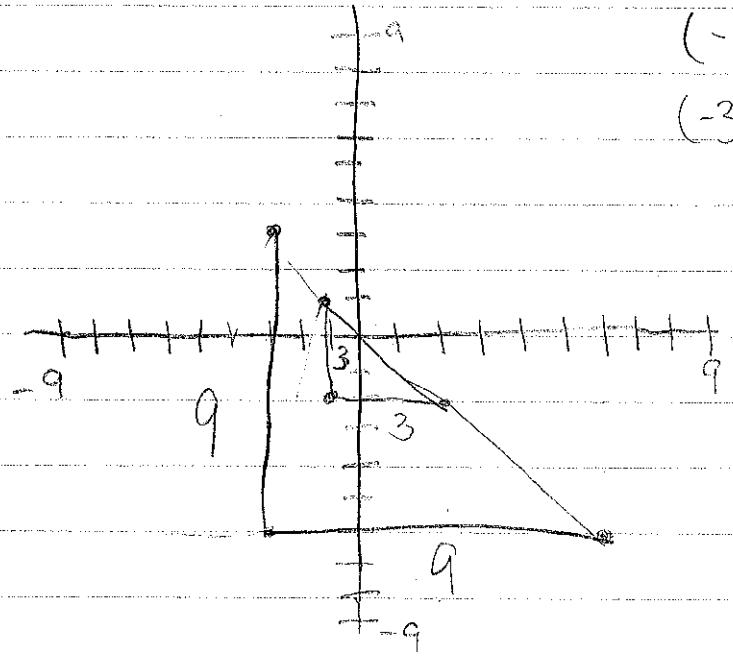
3 times bigger

$\frac{\text{new}}{\text{original}} = \frac{9}{3} = 3$

↑ Scale factor

(5)

(-1,1) (-1,-2) (2,-2)
(-3,3) (-3,-6) (6,-6)

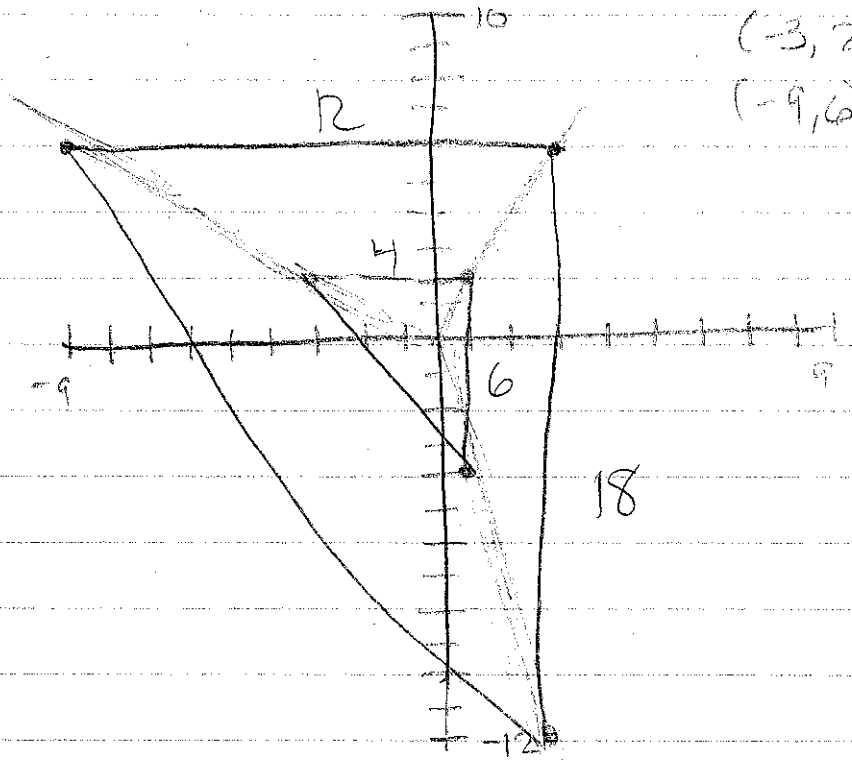


3 times bigger

$\frac{\text{new}}{\text{original}} \quad \frac{9}{3} = 3$

↑ scale factor

(6)



(-3, 2) (1, 2) (1, -4)
(-9, 6) (3, 6) (3, -12)

3 times bigger

$\frac{\text{new}}{\text{original}} = \frac{18}{6} = 3$

(7) dilation - enlargement
(8) dilation - reduction
(9) rotation
(10) dilation - reduction
(11) dilation - reduction
(12) reflection
(13) enlargement
(14) reduction
(15) reduction
(16) enlargement
(17) reduction
(18) enlargement

(19) coordinates were multiplied by 2, instead of divided by 2

(20) enlargement

AC red = 2

$A'C'$ blue = 4

$\frac{4}{2} = 2$ (scale factor)

2 times bigger