2014 Exam:

3.

A = 1600 / (30 - (-10)) = 40

B = 1200 / (80 - 50) = 40

C = 0 - 40 * 200 = -8000

D = 0 - 40 * 50 = -2000

-P1 = (-5, 70)

Answer:

      sx = A * x + C = 40 * -5 + -8000 = -8200

      sy = B * y + D = 40 * 70 + -2000 = 800

-P2 = (20, 65)

Answer:

      sx = A * x + C = 40 * 20 + -8000 = -7200

      sy = B * y + D = 40 * 65 + -2000 = 600