## **Multiple Choice**

Sheet 4

- 1) If the lengths of a geometrical shape are multiplied by a scale factor of 2y², then the surface area of the new shape will be multiplied by a scale factor of
  - a) 2y<sup>2</sup>

b) 8y<sup>6</sup>

c) 4y<sup>4</sup>

- d)  $4y^2$
- 2) Find the dilated coordinates of (8, 2), when the center of dilation is at the origin and the scale factor is 3.
  - a) (24, 6)

**PREVIEW** 

d) (-6, -24)

- 3) A and B are similar coare the dimensions o
  - a) 8 times
- 4) The volumes of similar of their surface areas
  - a) 1:216
- 5) Find the scale factor

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ne of B. How much larger

d) 4 times

Determine the ratio

d) 1:36

25:49.

- a) 7:5
- b) 125:243
- c) 5:7
- d) 49:25
- 6) (24, 20) is the dilated point of (3z, 5). Determine the value of z, when the center of dilation is at the origin.
  - a) 4

b) 2

c) 6

d) 8