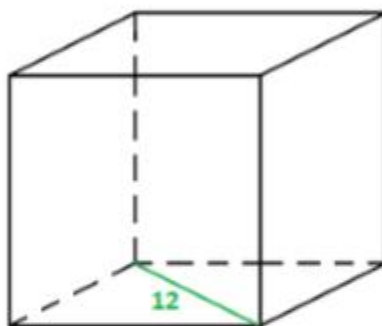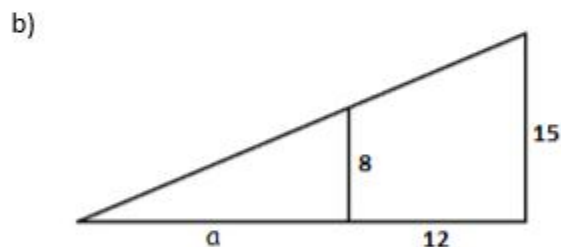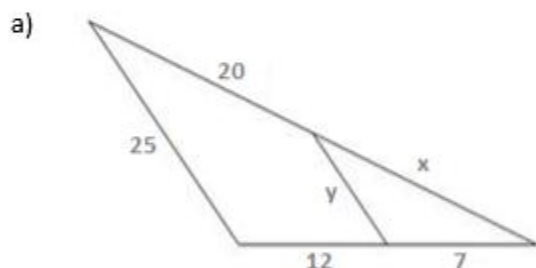**Exercise 1:** **(1.5 ptos)** Find the sides of a right-angled triangle if they are given by $x-2$, $x+5$ and $x+6$

Exercise 2: **(0.75 ptos)** Enunciate Pythagoras' theorem
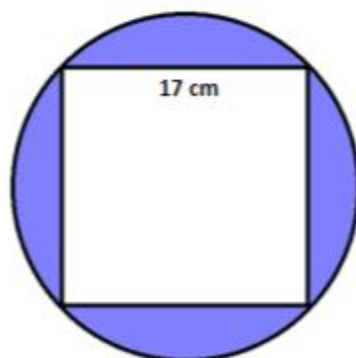
Exercise 3: **(1.25 ptos)** Find the axial diagonal of a cube if the diagonal of one of its faces measures 12 cm
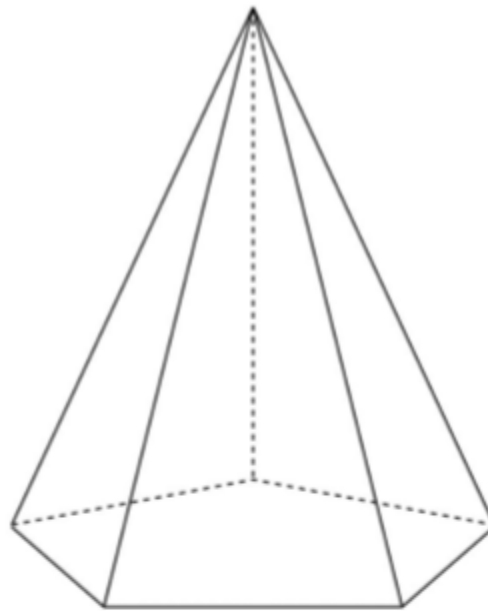

Exercise 4: **(2 ptos)** Work out the values of the indeterminates in the following figures:

a)

b)

Exercise 5: **(1.25 ptos)** Work out the value of the shadowed area if the side of the square measures 17 cm:

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Exercise 6: (2 ptos) Work out the value of the area of a regular pentagonal pyramid with altitude 12 cm if the length of the side of the base is 10 cm and its edge measures 15 cm

Exercise 7: (1.25 ptos) Find the height of the Empire State Building:

1.55 m

← 1.8 m →   440.14 m