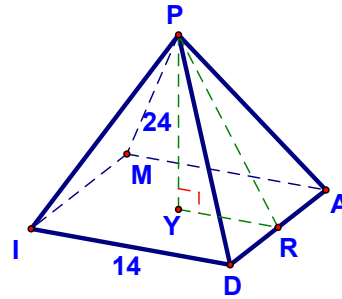


5.

Given: Regular square pyramid PAMID with slant height \overline{PR} , altitude \overline{PY}
 $ID = 14$
 $PY = 24$

Find:

- AD
- YR
- PR
- The perimeter of base AMID
- A diagonal of the base (not shown)



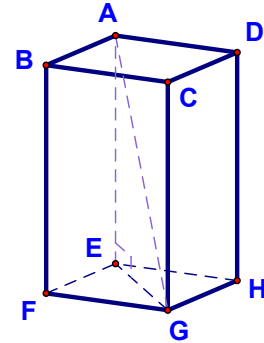
6.

Find the slant height of a regular square pyramid if the altitude is 12 and one of the sides of the square base is 10.

13.

ABCDEFGH is a rectangular solid.

- a. If face diagonal \overline{CH} measures 17, edge \overline{GH} measures 8, and edge \overline{FG} measures 6, how long is diagonal \overline{AG} ?

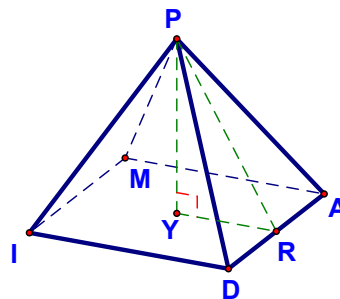


- b. If diagonal \overline{AG} measures 50, edge \overline{AE} measures 40, and edge \overline{EF} measures 3, how long is edge \overline{FG} ?

14.

PADIM is a regular square pyramid. Slant height \overline{PR} measures 10, and the base diagonals measure $12\sqrt{2}$.

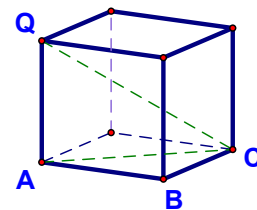
- Find ID
- Find the altitude of the pyramid
- Find RD
- Find PD (length of a lateral edge)



17. The perimeter of the base of a regular square pyramid is 24. If the slant height is 5, find the altitude.

18. In the cube, find the measure of the diagonal in terms of x if:

a. $AB = x$



b. $AC = x$

19.

Find a formula for the length of a diagonal of a rectangular solid (use a , b , and c for the three dimensions)

