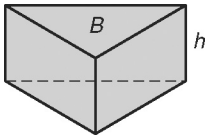
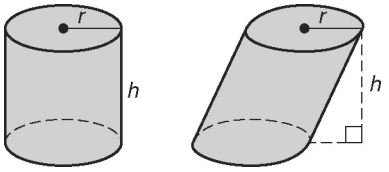
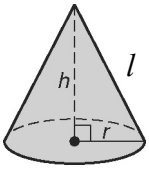
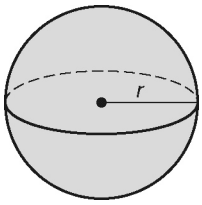
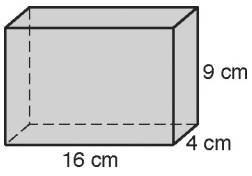
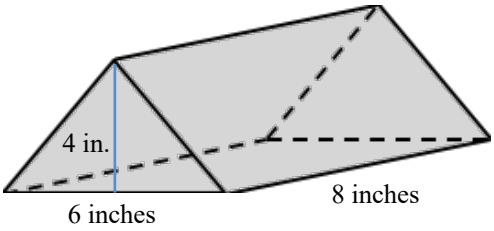
Ch. 11 Extension: **Surface Area**

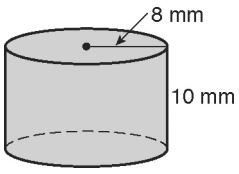
Prism	$SA = 2B + Ph$	
Cylinder	$SA = 2B + Ch$ $SA = 2\pi r^2 + 2\pi rh$	
Cone	$SA = B + \frac{1}{2}Cl$ $SA = \pi r^2 + \pi rl$	
Sphere	$SA = 4\pi r^2$	

Find the surface area of each prism.

1. 

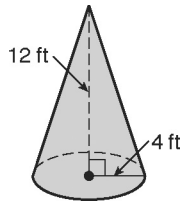
2. 

Find the surface area of the cylinder. Give your answer in terms of π.

3. 

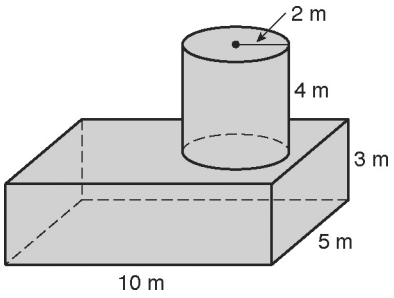
Find the surface area of the cone. Give your answer in terms of π.

4.

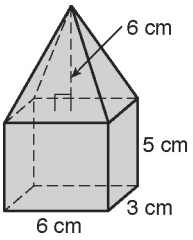


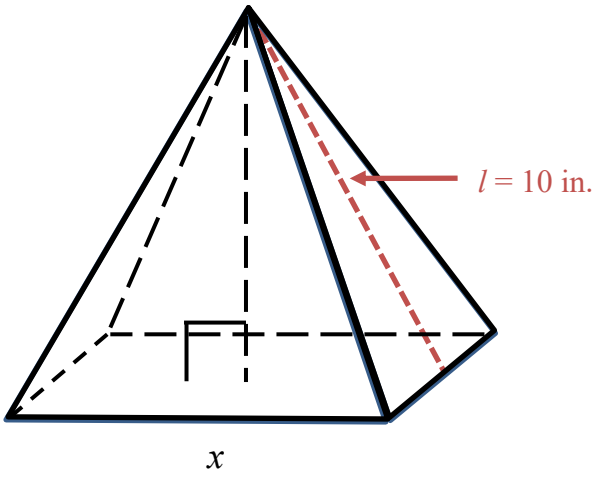
Find the surface area of the composite figure.

5.



6.



8. Find the volume of a cylinder with surface area 180π m^2 and height 9 m.

9. Find the volume of a square pyramid with slant height 10 in. and surface area 300 in^2.