

UNDER PRESSURE

Solution Sheet

- 1) 225 inches (.75 x 300)
- 2) 18.75 ft. (225 ÷ 12)
- 3) 8.12 PSI (225÷27.7)
- 4) 132,182.4 gallons {first find volume ($\pi r^2 h$), then convert to gallons}
- 5) 99,136.8 gallons {.75 x 132,182.4}
- 6) No
- 7) If gauge reads 5.1 PSI that suggests a water height of 141.27 inches. (5.1 x 27.7)
But if this reservoir is only 25% full and it is 300" tall, then it has a water height of 75 inches, which converts to 2.71 PSI.