[3.9]

Answers to evens

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[2] $\frac{dr}{dt} = \frac{1}{12\pi} \approx 0.027 \ \frac{\text{in}}{s}$

[4] $\frac{dh}{dt} = \frac{4}{3\pi} \approx 0.42 \ \frac{\text{cm}}{s}$

[6] $\frac{dx}{dt} = \frac{50}{22.9} \approx 2.18 \ \frac{\text{ft}}{s}$

[8] $\frac{dA}{dt} = -4000 + 31250\pi \approx 94175 \ \frac{\text{ft}^2}{h}$

[10] $\frac{dy}{dt} = \frac{120}{150}(5) = 4 \ \frac{\text{ft}}{s}$

[14] $\frac{ds}{dt} = \frac{5580}{150} \approx 37.2 \ \frac{\text{knots}}{h}$

[22] $2\sqrt{41}\ \frac{ds}{dt} = \frac{220\pi}{3} \approx 18 \ \frac{\text{in}}{s}$