RELATED RATES 2

$$A = \frac{1}{2}bh$$

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$$\frac{dA}{dt} = \frac{1}{2}\left[b \cdot \frac{dh}{dt} + h \cdot \frac{dh}{dt}\right]$$

$$\frac{dA}{dt} = \frac{1}{2}\left[7 \cdot 0.3 + 24 \cdot \left(\frac{34}{35}\right)\right]$$

$$\frac{dA}{dt} \approx 11.29 \text{ ft}^2$$

$$2bdb + 2hdh = 0$$

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$$2(7) \frac{db}{dt} = -2b4 \text{ ft}^2$$

Similar
$$\Delta'$$
s

$$\begin{array}{lll}
20' & 68 \\
\hline
X & + 48 \\
\hline
ADS & = 6x + 6s \\
\hline
14 & 5 & = 6x \\
\hline
14 & 5 & = 6 & 4x \\
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14 & 5 & = 6 & 4x \\
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14 & 5 & = 264 \\
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14 & 6 & = 264 \\
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15 & 6 & = 264 \\
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16 & 6 & = 264 \\
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17 & 6 & = 264 \\
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18 & 6 & = 264 \\
\hline$$

The soo tan
$$\theta = \frac{h}{100}$$

Sec $\theta = \frac{r}{x} = \frac{h_{yp}}{h_{yp}}$
 $100 \text{ Sec}^2 \theta \frac{d\theta}{dt} = \frac{dh}{dt}$
 $2 \cdot \sqrt{2} = \sqrt{12}$
 $100 \text{ Sec}^2 \theta \frac{d\theta}{dt} = 10$
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