

2/24/16

Do Now

the time in T minutes,
taken for a stadium to empty
varies directly as number of
spectators, S and inversely
as number of open exits.

min. for 40,000 spectators + 30 open exits

Test Review #2

How long for

37,000 spectators

and 23 open

exits?

$$\begin{aligned} \text{ex)} \quad & (6x^4)^4 (3x^2y) \\ & 1296x^{16} (3x^2y) \\ & = 3888x^{18}y \end{aligned}$$

$$\text{ex)} \quad \left(\frac{25x^{10}}{169y^{16}} \right)^{1/2} = \frac{5x^5}{13y^8}$$

$$\begin{aligned} \text{ex)} \quad & \sqrt[3]{81x^3y^{18}z^7} = 9x\sqrt[6]{z^2}\sqrt{z} \\ & z^6 \cdot z^1 \\ & = z^7 \end{aligned}$$