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① Combo

② $F = \frac{km}{D^2}$

③ $80 = \frac{k(200)}{5^2}$

$$80 = \frac{200k}{25}$$

$$80 = 8k$$

$$\frac{80}{8} = k$$

$$10 = k$$

$$F = \frac{10m}{D^2}$$

④ $F = \frac{10(310)}{7^2}$

$F = 63.27$

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① Joint: $y = kx^2$

② $P = knd$

③ $2000 = k(30)(5)$

$$2000 = 150k$$

$$\frac{2000}{150} = k$$

$$\frac{2000}{15} = k$$

$$\frac{400}{3} = k$$

$$P = \frac{40}{3}nd$$

④ $P = \frac{40}{3}(40)(2)$

$$= 80(14)$$

$$= 1120$$