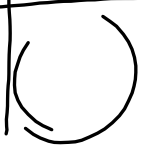
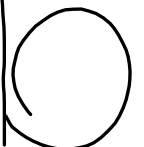


P329

27.

[E]+

	skateboard	person	skateboard + person
m	7.0kg	40.0kg	47.0kg
v	+2.6m/s	+3.2m/s	v
P			(47.0kg) v

\vec{P}_{total}
 \vec{P}_{total}

P322

31.

[N]+

	BEFORE		AFTER
	A	B	A+B
m	1735kg	2540kg	4275kg
v	15.4m/s	10.5m/s	v (12.5m/s)
P	26719 kg·m/s	26670 kg·m/s	(4275kg) v

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$$26719 + 26670 = 4275v$$

$$53389 \text{ kg}\cdot\text{m/s} = (4275\text{kg})v$$

$$v = 12.5 \text{ m/s}$$