Announcements

- WA#2 has been regraded – thanks for the feedback
- CBTF Quiz 5 this week
- MATLAB Lecture: Thursday, 5-6PM, location TBD
- Homework grade update

□ Upcoming deadlines:
- Wednesday (11/1)
  - PL HW18 – EXTENDED!
- Thursday (11/2)
  - ME HW19
- Friday (11/3)
  - WA#3

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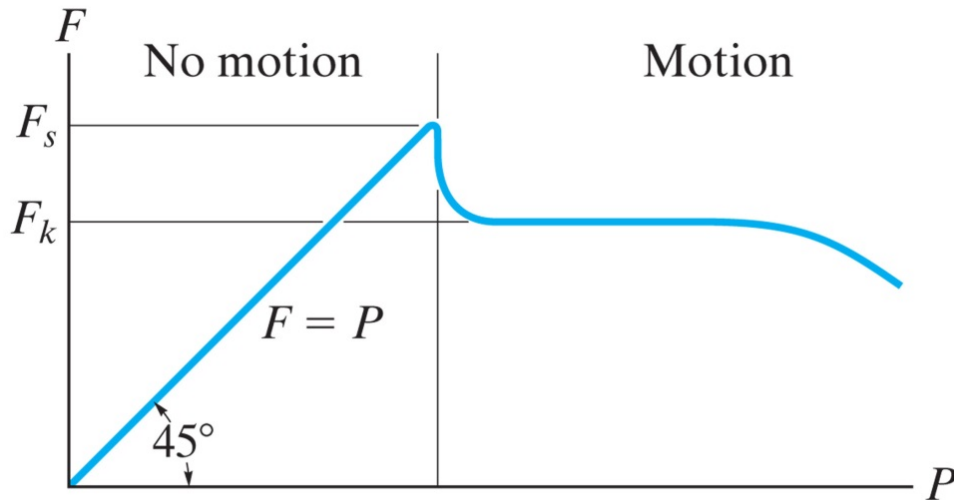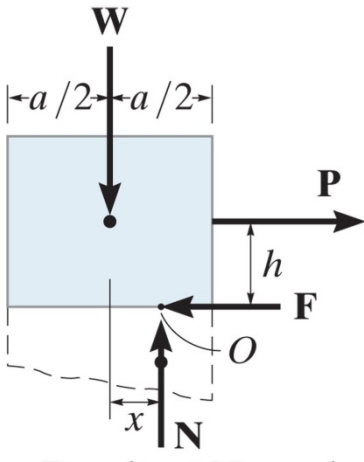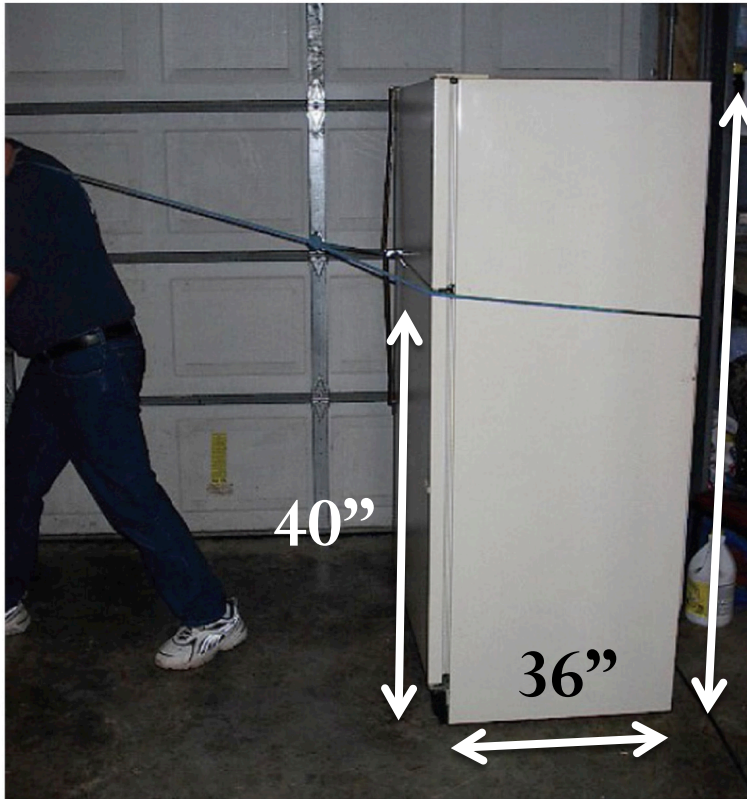
Recap: Dry friction

Table 8–1 Typical Values for μ_s	
Contact Materials	Coefficient of Static Friction (μ_s)
Metal on ice	0.03–0.05
Wood on wood	0.30–0.70
Leather on wood	0.20–0.50
Leather on metal	0.30–0.60
Aluminum on aluminum	1.10–1.70

Given: Fridge weight $= 250$ lb and
$\mu_s = 0.4$

Find: The maximum horizontal force P that can be applied at without causing movement of the crate.

40"

70"

36"

How much horizontal force does Liz Lemon need to show people that she is angry? Can she do it? (The 96"L x 42"W x 30"H table and its contents weigh 150 lb)

Blocks A and B have the same height and a mass of 7 kg and 10 kg, respectively. Determine the largest vertical force P which can be applied to the cord attached to the middle of B without causing motion.

300 mm

B

400 mm

$\mu_B = 0.4$

P

A

800 mm

$\mu_A = 0.3$