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Problem 8- Determine the friction force on the crate of mass M, and the resultant normal force and its position x, measured from point A, if the force is P. Given: M=40 kg μs=0. a=400 mm μk =0. b=800 mm d= 3

c=200 mm e= 4 P =300 N Solution: Initial guesses: FC=25 N NC=100 N. 764. Solution: © 2007 R. C. Hibbeler.

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Solution: Consider the three vectors; with A vertical. Note triangle obd is perpendicular to A. od= ABD× ()+ = A ()BD+ sin ()θ 3 ob= AB× = A B sin ()θ 1 bd= AD× = A Bsin ()θ 2 Also, these three cross products all lie in the plane obd since they are all perpendicular to A. As noted the magnitude of each cross product is proportional to the length of each side of the triangle.

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