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174 CHAPTER 5. BASIC PRINCIPLES OF PHYSICS point. It satisfies a translation symmetry of any amount. It is homogeneous, same everywhere, and isotropic, same in both directions which are all the directions that it has. In turn, you can think of the straight line as the curve that is generated by translating a point to generate a continuous curve.

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page 93 6. Two horizontal forces, 225 N and 165 N, are exerted on a canoe. If these forces are applied in the same direction, find the net horizontal force on the canoe.

CHAPTER 4 Forces in One Dimension

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• Newton's second law:
• Newton's third law:
• Weight is the gravitational force on an object.
• The frictional force can be written $F_f = \frac{1}{2} k F_N$
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