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~~Determine its coordinate direction angles of the force.~~

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~~Solution: Consider the three vectors; with A vertical. Note triangle obd is perpendicular to A.  $od = ABD \times (\theta) + = A (\theta)BD + \sin(\theta)$   $3 ob = AB \times = A B \sin(\theta)$   $1 bd = AD \times = A B \sin(\theta)$   $2$  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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SOLUTION 2. 2. a  $60^\circ$ .  $1 = \cos 60^\circ + \cos 45^\circ + \cos g$ .  $F_y$ .  $F_x$ . Solving for the positive root,  $g = 60^\circ$ .  $F_x = 80 \cos 60^\circ = 40.0$  lb. Ans.  $F_y = 80 \cos 45^\circ = 56.6$  lb. Ans.  $F_z = 80 \cos 60^\circ = 40.0$  ...

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It is not only in our dark hours that scepticism, relativism, hypocrisy, and nihilism dog ethics. Whether it is a matter of giving to charity, or sticking to duty, or insisting on our rights, we can be confused, or be paralysed by the fear that our principles are groundless. Many are afraid that in a Godless world science has unmasked us as creatures fated by our genes to be selfish and tribalistic, or competitive and aggressive. Simon Blackburn, author of the best-selling *Think*, structures this short introduction around these and other threats to ethics. Confronting seven different objections to our self-image as moral, well-behaved creatures, he charts a course through the philosophical quicksands that often engulf us. Then, turning to problems of life and death, he shows how we should think about the meaning of life, and how we should mistrust the sound-bite sized absolutes that often dominate moral debates. Finally he offers a critical tour of the ways the philosophical tradition has tried to provide foundations for ethics, from Plato and Aristotle through to contemporary debates.

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