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3 The projection of a vector  $a$  on  $b$  is equal to  $a \cdot b / |b|$ , where  $b = |b|j_b$  is the unit vector in direction of  $b$ . (2.4) 2.2.2 Cross product The cross product,  $a \times b$  between two vectors  $a$  and  $b$  is a vector defined by  $a \times b = |a||b|\sin(\theta)u$ ; (2.5) where  $\theta$  is the angle between  $a$  and  $b$  and  $u$  is a unit vector in the direction

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