C) A ship is heading due south at 15 mph. The current is flowing northwest at 3 mph. Find the actual bearing and speed of the ship. Shooting a basketball: A basketball is shot at an angle 65° with an initial speed of a. Find the component form of the initial velocity. 12/125,10.8> (12 cos 65°, 12 sin 65°) ∠ 5.071 , 10.875> ← b. Give an interpretation of the horizontal and vertical components of the velocity. tow fast the ball is moving Horizontally 5 m/sec Ituw fast the ball is moving vertically w/o the effects of gravity Force > Magnitude Combining Forces: A force of 40 lbs acts on an object at angle of 200 A second force of 65 pounds acts on the object at an angle if -25°. Find the direction and magnitude of the resultant force. 240cos20,40sin20> = \(\begin{align*} A^2 + B^2 = 97. \\
Ref & = (-8.13°) \\
240cos(-25),655(n(-25)) \\
65co5(-25),655(n(-25)) \\
65co5(-25),655(n(-6 | Page