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A mobile crane is being used for a dolphin-rescue operation. While the crane is backing up at 1.5 m/s, the dolphin is being hoisted upward by the pulley at a rate of 0.5 m/s. At the same time, the boom of the crane, which is at at 35° angle from the ground, is retracting at a rate of 0.3 m/s. How fast is the dolphin moving relative to someone standing on the ground and in what direction?

