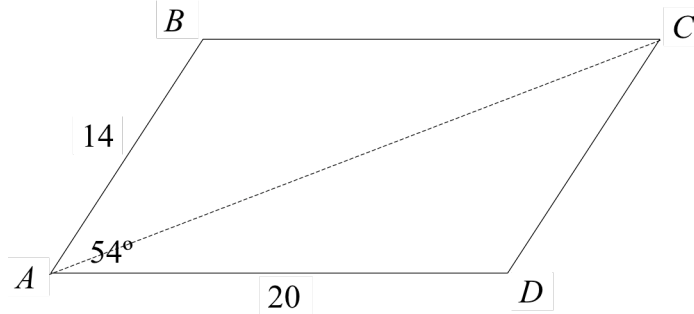


Forces

1. In parallelogram $ABCD$, $AB = 14$, $AD = 20$, and $m\angle BAD = 54$

- Find, to the *nearest tenth*, the length of diagonal AC .
- Find $m\angle CAD$ to the *nearest degree*.



2. Two forces of 150 pounds and 50 pounds act on an object at an angle of 45° . Find the magnitude of the resultant to the *nearest pound*.

