

Math 10270 : Quiz 3

1. A triangular truss is supported at its two lower corners and carries a 200 lb. load at its vertex as shown. The two diagonal frames are 30 ft. long.

(a) Is the horizontal frame under compression or tension?

(b) Find the force applied by the horizontal frame in the cases when its length is (i) 10 ft; (ii) 30ft.

2. List three Gothic cathedrals.