5b. 1106.3 - 212 = 894 ft
c. Yes.

6. 21120 + 6934.2 + 2960.8 + 10574.5 + 31699.3 = 73288.8 ft ≈ 13.8 miles

Max Height 3060 ft

6934.2 ft

(c) 28°

$\sin(28°) = \dfrac{1390}{a}$

2960.8

242 ft | 1390 ft

2°

a

(b)

28°

1650 ft

0.5 miles

2640 ft

(d)

3°

3°

$b \cos(3°) = \dfrac{10560}{b}$

10574.5

4 miles

21120

(a)

2 miles

10560

c

$\cos(2) = \dfrac{31680}{b}$

(e)

31699.3

7.7°

2°

2°

LaGuardia Airport 3:25

Bird Strike 3:27.11

3:27.30

3:28.10

G.W. Bridge 3:28.58

6 miles

31680

Landed in the Hudson River 3:31

⑦

1650

2°

x

$\tan 2 = \dfrac{1650}{x}$

x = 47249.8 ft
or 8.9 miles
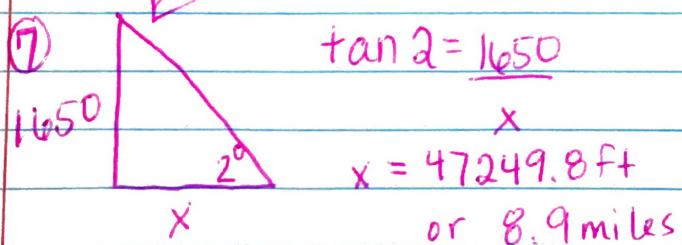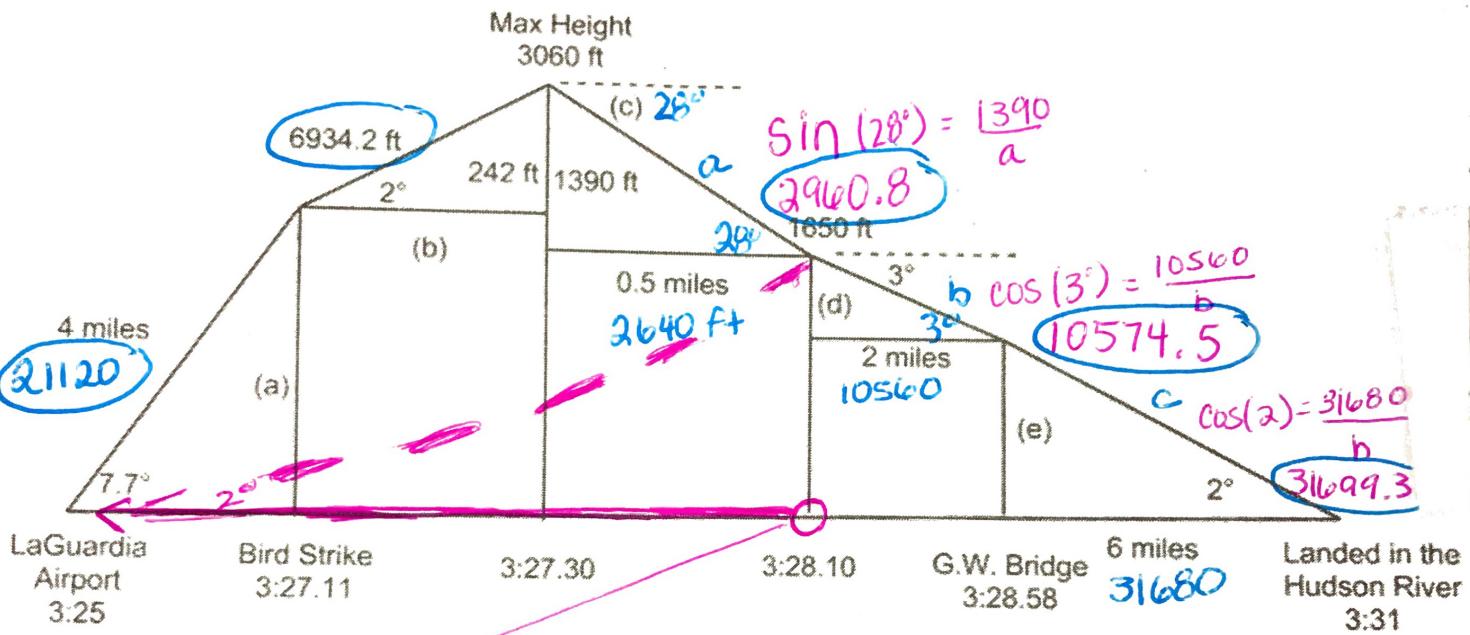
He couldn't have made it back b/c it was almost 3 more miles.

⑨ 150 knots = 172.5 mph