Worksheet for 11/7/13

Part 1: compute the following limits:

- 1) lim (x·e-x)
- \mathbb{Z} $\lim_{x\to\infty} \left(\times \sin\left(\frac{3}{x}\right) \right)$
- 3 (Pset9, A6) lim (1+x)1/x
- 4) lim (x1/x)
- 5) lim (xx)
- Flim (Jx2+x -x)

Part II

(8) An object in thee fall on the moon accelerate downward at about 1.6 m/s? (about 17% of Earth's gravity).

If you jump off a 5m tall ledge on the moon, how long will it take to hit the bottom? How Past will you be Palling when you land?

9) Find some antiderivative for each function.

a) x7

e) X+cosx

Ы 3[×]

f) e7x

c) Zcosx

g) x+x7

d) x2+7

h) x· e× (this one is a challenge ... be creative)