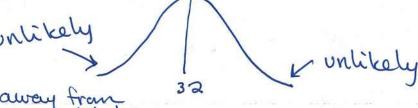
Normal Distribution and intro to trig homework

Name: ANSWERS

1) A set of scores with a normal distribution has a mean of 32 and a standard deviation of 3.7. Which score could be expected to occur the *least* often?

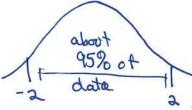
- 1) 26
- 2) 29
- 3) 36

4) 40



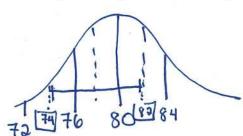
2) If the mean of a test score is 30 and the standard deviation is 3.7, which score could be expected to occur less than 5% of the time?

- 1) 35
- 2) 33.8



A data pt. keyond 2 S.D. would ocur less than 5% of the time.

3) A set of normally distributed student test scores has a mean of 80 and a standard deviation of 4. Determine the probability that a randomly selected score will be between 74 and 82.



$$9.290 + 1590 + 19.190 + 19.190$$

$$= [62.490]$$

4) In the accompanying diagram, the shaded area represents approximately 95% of the scores on a standardized test. If these scores ranged from 78 to 92, which could be the standard deviation?

