Rest of the inductive step:

Name:			
NetID:		Lecture:	\mathbf{A}
Discussion:	Monday & Wednesday	1:30 2:30	
(15 points) following claim:	Working directly from the definitio	n of divides, use	(strong) induction to prove the
Claim: 7^n -	-2^n is divisible by 5, for all natural :	numbers n .	
Proof by indu	action on n .		
Base case(s)):		
Inductive H	Iypothesis [Be specific, don't just re	efer to "the claim"]:

Name:_____

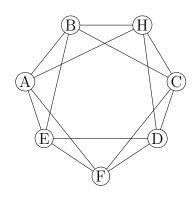
NetID:_

Lecture: \mathbf{A}

Monday & Wednesday Discussion:

1:30 2:30

1. (9 points) What is the chromatic number of the graph below? Justify your answer.



2. (6 points) Check the (single) box that best characterizes each item.

Chromatic number of W_{2n} .

9	
\angle	

$$\leq 3$$

$$\leq 4$$

$$\frac{p(p-1)}{2}$$

$$\frac{(p-1)^2}{2}$$

p(p+1)	Γ
 2	

$$\frac{(p-1)(p+1)}{2}$$

Leal team's bridge collapsed under a 100 pound weight. 100 pounds is ____ on how much the bridge can hold.

an upper bound on a lower bound on

exactly
not a bound or