Skill Practice 26				
<b>Polar Pra</b>	<b>ictice</b>	Name:	Date:	Hour:

1. What does it mean to say that a bond is polar?

One of the atoms involved in the bond has a greater electronegativity than the other atom and therefore it has a partial negative charge.

2. Label each of the following bonds as ionic (I), polar covalent (PC) or nonpolar covalent (NC).

INa—Cl	<u>NC</u> N—O	_ <u>NC</u> F—F	
<u>PC</u> S—O	_ <u>NC</u> H—C	_ <u>NC</u> P—S	
I Mg—F	<u>PC</u> _ P—O	PC_Br—N	

- 3. For each of the sets of bonds, rank them in order from most polar to least polar.
  - A) F—F, S—O, H—C, P—S S—O, P—S, H—C, F—F
  - B) H—N, H—O, H—F, H—Cl H—F, H—O, H—N, H—Cl
  - C) C—H, C—O, N—O, S—C C—O, N—O, C—H, S—C
  - D) As—S, P—N, N—N, Cl—C P—N, Cl—C, As—S, N—N
  - E) H—F, H—O, Se—Br, Si—Cl H—F, H—O, Si—Cl, Se—Br